CLAIMS

 A method for preserving confidentiality of an electronic mail from a sender to a recipient, comprising:

authenticating identity information of the recipient;

restricting the recipient's ability to manipulate the electronic mail based on a confidentiality level established by the sender;

encrypting the electronic mail with the authenticated identity information if the recipient attempts to store the electronic mail to a local storage; and decrypting the electronic mail if the recipient attempts to retrieve the electronic mail from the local storage.

- 2. The method according to claim 1, wherein the identity information is a system password.
- 3. The method according to claim 1, the method further comprising: prompting a user of the recipient to supply the identity information; decrypting the electronic mail with the identity information supplied by the user.
- 4. The method according to claim 1, the method further comprising:
 asserting a control signal to disable options that are originally supported by the recipient
 if the confidentiality level satisfies a predefined confidentiality threshold.
- 5. The method according to claim 4, wherein the control signal is a confidentiality-level-dependent control signal.

- 6. An electronic mail confidentiality preserver of an email client, comprising:
 - an input-processing engine to limit abilities of a user of the email client to manipulate an electronic mail received by the email client based on a confidentiality level; and
 - an encryption/decryption engine, coupled to the input-processing engine, to limit the user's access to a local storage if the user's access involves an electronic mail.
- 7. The electronic mail confidentiality preserver according to claim 6, the inputprocessing engine further asserts a first control signal to disable options that are originally supported by the email client if the confidentiality level satisfies a predefined confidentiality threshold.
- 8. The electronic mail confidentiality preserver according to claim 7, wherein the first control signal is a confidentiality-level-dependent control signal.
- 9. The electronic mail confidentiality preserver according to claim 6, the inputprocessing engine further asserts a second control signal to invoke the encryption/decryption engine in response to the user's access.
- 10. The electronic mail confidentiality preserver according to claim 6, the encryption/decryption engine further

prompts the user for identity information;

if the user's access to the local storage is to store the electronic mail, encrypts the electronic mail with the identity information; and

if the user's access to the local storage is to retrieve the electronic mail, decrypts the electronic mail with the identity information.

11. A electronic mail client, comprising:

a user interface;

a communication engine;

a local storage;

and an electronic mail confidentiality preserver, coupled to the user interface, coupled to the communication engine and coupled to the local storage, wherein the electronic mail confidentiality preserver further comprises:

- an input-processing engine to limit abilities of a user of the email client to manipulate an electronic mail received by the email client based on a user-selected confidentiality level; and
- an encryption/decryption engine, coupled to the inputprocessing engine, to limit the user's access to the local storage if the user's access involves an electronic mail.
- 12. The electronic mail client according to claim 11, wherein the user interface further comprises:
 - a first set of confidentiality levels for the user to select from; and
 - a second set of options to manipulate the electronic mail for the user to select from.

- 13. The electronic mail client according to claim 12, wherein the electronic mail confidentiality preserver further asserts a first control signal to the user interface to disable selected options from the second set of options if the confidentiality level satisfies a predefined confidentiality threshold.
- 14. The electronic mail client according to claim 13, wherein the first control signal is a confidentiality-level-dependent control signal.
- 15. The electronic mail client according to claim 12, the input-processing engine further asserts a second control signal to invoke the encryption/decryption engine in response to the user's access.
- 16. The electronic mail client according to claim 12, the encryption/decryption engine further

prompts the user for identity information;

- if the user's access to the local storage is to store the electronic mail, encrypts the electronic mail with the identity information; and
- if the user's access to the local storage is to retrieve the electronic mail, decrypts the electronic mail with the identity information.
- 17. A machine readable medium including a plurality of instructions readable therefrom, the instructions, when executed by a computer system, cause the computer system to perform operations comprising:

authenticating identity information of a recipient of an electronic mail;

restricting the recipient's ability to manipulate the electronic mail based on a confidentiality level established by a sender of the electronic mail; encrypting the electronic mail with the authenticated identity information if the recipient attempts to store the electronic mail to a local storage; and decrypting the electronic mail if the recipient attempts to retrieve the electronic mail from the local storage.

- 18. The machine readable medium according to claim 17, wherein the identity information is a system password.
- 19. The machine readable medium according to claim 17, the instructions further comprising:

prompting a user of the recipient to supply the identity information; decrypting the electronic mail with the identity information supplied by the user.

20. The machine readable medium according to claim 17, the instructions further comprising:

asserting a control signal to disable options that are originally supported by
the recipient if the confidentiality level satisfies a predefined
confidentiality threshold.

21. The machine readable medium according to claim 20, wherein the control signal is a confidentiality-level-dependent control signal.